

WOC 22

SPEAKERS

Guayaquil Convention Center
November 8-12, 2017



22ND WORLD ORCHID CONFERENCE

On-Line Registration: www.woc22.com

SPEAKERS AND TITLES

Confronting the genomics revolution head-on: what we can learn about what problems are bothering orchid species

Mark W. Chase

Orchids and the persistent instability principle

James D. Ackerman

The Orchid Specialist Group at the start of the new Quadrennium

Michael F. Fay

The phragmipediums of Ecuador: their culture, eco-biology, and taxonomy

Frank Cervera

Reproductive biology and floral anatomy associated with pollinator attraction in *Phragmipedium longifolium* from Costa Rica

Melissa Díaz-Morales, Franco Pupulin, and Melania Fernández

Revisiting the *Phragmipedium schlimii* complex

Eliseo Tesón and Guido J. Braem

Observations on drought-related decline of *Cypripedium* populations in northwest Yunnan, China

Wenqing Perner

Culture of *Phragmipedium kovachii*

Alfredo Manrique

Breeding with the genus *Phragmipedium* in second and higher generations

Olaf Gruss

***Dracula* - at home and in captivity**

Johan Hermans

***Lepanthes* of Colombia: endemic areas, richness, and distribution**

Juan Sebastián Moreno, Nicolas Hazzi, Esteban Domínguez Vargas, and Sebastián Vieira-Uribe

Floral anatomy and evolution of pollination syndromes in *Lepanthes* and close relatives

Diego Bogarín, Melania Fernández, Franco Pupulin, and Barbara Gravendeel

How many species of Pleurothallidinae are there?

Franco Pupulin, Diego Bogarín, and Adam P. Karremans

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The Pleurothallidinae: extremely high speciation driven by pollinator adaptation

Adam P. Karremans and Melissa Díaz-Morales

Field investigations of *Dendrobium* section *Oxyglossum* in the highlands of Papua New Guinea

Roland Schettler

Biogeography of Australasian dendrobiums

Peter B. Adams

The World Checklist of Orchids, its offspring and successor

Rafaël Govaerts

What can be done to stabilize nomenclature in the orchid hybrid register?

Julian M. H. Shaw

A broader interpretation of *Odontoglossum* in order to avoid creating new names

Stig Dalström and Wesley E. Higgins

Hybridization, natural (and artificial) introgression as a process for the origin of species and lineages in Laeliinae

Cássio van den Berg

Multiple origins in time and space of environmental sex determination in Darwin's favorite orchids (Catasetinae)

Oscar Alejandro Pérez Escobar, Marc Gottschling, Gerardo Salazar, and Günter Gerlach

Phylogenomics of *Epidendrum*: untangling a Neotropical mega-diversification

Eric Hágsater, Carolina Granados, Gerardo A. Salazar, Susana Magallón, Cassio van den Berg, Emily Moriarty Lemmon, and Alan R. Lemmon

Phylogenetic relationships among *Liparis* species of Indonesia, Hawaii, and North America

Ingelia P. White, Hongwei Li, Marisa Maemori, Tom A. Ranker, Clifford Morden, Kenneth M. Cameron, Irawati, and Eka M. D. Rahayu

The hairy taxonomy of *Eria*

André Schuiteman

An artist on the orchid trail

Carol Woodin

The RHS Orchid Committee and its artists: a history of the RHS orchid award paintings

Clare Hermans

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Management strategy for fertilizing *Phalaenopsis* for growers based on novel scientific findings

Yao-Chien Alex Chang

Experiences in growing *Odontoglossum* and *Anguloa*

Felipe Pastor-Chacón and Paola Pastor-Chacón

Issues for judging

Charlie McMonagle and Peter B. Adams

The latest hybridizing of novelty *Phalaenopsis* for their color and fragrance

Peter Lin

***Cattleya* breeding over 30 years in Japan**

Munekazu Ejiri

Cool-growing Australasian *Dendrobium* hybrids

Sheryl D. Lawson

First Ladies and their cattleyas

A. A. Chadwick and Arthur E. Chadwick

***Oncidium fuscatum* and its hybrids**

Jean Allen-Ikeson

Orchids of El Salvador: challenges for conservation in a highly deforested country

José Linares and José Yader S. Ruiz Cruz

Terrestrial orchid diversity and conservation in Western Ghats, South India

M. Jadeyegowda, M. Jhenkhar, M. N. Ramesh, M. Kaveriamma, C. G. Kushalappa, V. G. Sunil, Charanakumar, P. Prashanth, Yusuf Abbas, and Shashibushan Mishra

Prioritization of new orchid conservation sites in Colombia by modeling the nationwide distribution of orchid diversity

Joe E. Meisel

Knowledge and management of epiphytic orchids in Tenderio, land belonging to the Indigenous Community of Santiago Tingambato, Michoacán, México

Irene Ávila-Díaz

Last chance to see? The race to save the spectacular *Albertina Sisulu* Orchid, *Brachycorythis conica* subsp. *transvaalensis*, a critically endangered South African terrestrial orchid

Craig I. Peter, Karsten Wodrich, Bill Mincher, and Andrew Hankey

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***In vitro* conservation system for *Prosthechea vitellina* through somatic embryos encapsulation**

Hilda Lee, Joaquín Murguía, Otto Leyva, Ma. Elena Galindo, Ivonne Landero, Teresita Ramírez, and Rosario Dávila

Successful reintroduction of two critically endangered species, *Cymbidium bicolor* subsp. *pubescens* and *Robiquetia spathulata*, in Singapore

Tim W. Yam

Orchid conservation the Writhlington way

Jacob Coles

Orchid micropropagation at King Charles I School, UK

Philip Seaton, Lisa Gray, and Louise Gage

Developing an orchid-centered education program in a botanic garden

Lisa Gray and Philip Seaton

Effects of climate change on the distribution of the Cuban *Encyclia*

Ángel Vale, Danny Rojas, Julio C. Álvarez, Rafael A. Pérez-Obregón, and Manuel A. Soto

Epiphyte biomass in northern Andean forests

Ana María Benavides, Daniel Zuleta, and Juan Carlos Benavides

The mosaic cycles of ecosystems and population strategies of terrestrial orchids

Ekaterina Zheleznaya

Are mycorrhizal communities associated with tropical epiphytic orchids structured around keystone mycorrhizal species?

Juan Pablo Suárez, Stefania Cevallos, Paulo Herrera, and Aminael Sánchez-Rodríguez

The fascinating world of orchid pollination

Ron McHatton

Cryobiology of endangered Thai orchid species

Kanchit Thammasiri, Nipawan Jitsopakul, Kathawut Sopalum, Upathum Meesawat, and Supornchai Chaireok

The deceptive rewards of (growing) lesser known Stanhopeinae

Thomas Mirenda

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Investigating the pollination biology of a long-lived island endemic epiphyte in the presence of an adventive alien pollinator

M. Christine Rose-Smyth

***Paphinia* Lindl. (Orchidaceae: Stanhopeinae) – a genus of scentless perfume orchids?**

Heiko Hentrich, Aneta Dick, Luise Hagenguth, Lisa Preiss, Jochen Scherr, Boris Schlumpberger, Stefan Doetterl, Irmgard Schaeffler, and Gerhard Gottsberger

Pollination mechanisms in *Telipogon* (Orchidaceae): from sexual deception to self-pollination

Carlos Martel

Pollination biology of *Masdevallia coccinea* and *M. ignea* in Colombia

Mónica Adriana Cuervo Martínez, María Argenis Bonilla Gómez, and Rodrigo Bustos Singer

Application of species distribution models on orchid data from Colombia

Zuzana Štípková, Marta Kolanowska, Dušan Romportl, and Pavel Kindlmann

Is Costa Rica the land of *Sobralia*?

Jorge Warner, Robert L. Dressler, Melania Fernández, Sofia Granados, Elvira Salas, and Franco Pupulin

The Lima Orchid

Susi Spittler

Generation and characterization of transgenic *Brassolaeliocattleya* Raye Holmes ‘Mendenhall’ expressing the coat protein gene of *Cymbidium* mosaic virus

Ingelia White, Hongwei Li, Nyan Stillwell, Yun J. Zhu, Heather McCafferty, Fengyong Zhou, Leslie Baker, Alisa Sheriff, Kimberley Chinen, and David Christopher

Unraveling the genetic basis of floral symmetry variation in Asparagales with an emphasis on Orchidaceae

Yesenia Madrigal Bedoya, Juan Fernando Alzate, and Natalia Pabón-Mora

Tourism possibilities of the orchids of Paclín, Argentina

Pedro R. Boggiatto, María C. Torres, Bernabé González, and Jorge Argañaraz

Cool at the equator: the history and potential of species from divergent temperature zones in orchid breeding

James E. Keach, Mei Leng Lim, Jassy Phua, Siti Nurziana Yacob, Andrea Kee, and Kiat W. Tan

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ANDEAN ORCHIDS SYMPOSIUM

Current state and conservation efforts of Chilean orchids
Mauricio A. Cisternas

The three main regions of greatest orchid diversity in Ecuador
Pepe Portilla

Patterns of orchid diversity from the páramo to the mangroves in El Oro, southwest Ecuador
Francisco Tobar-Suarez, Michaela H. Yanouch, and Mario H. Yáñez- Muñoz

Orchids as guides for the conservation of unique Andean microhabitats
Lou Jost

Orchid conservation in Colombia
Andrea Niessen

The orchid flora of Cauca-Colombia: inventory and priorities for conservation
Nhora Helena Ospina-Calderón, María Andrea Sánchez-Chaparral, Bernardo R. Ramírez, José Fernando Restrepo Ortiz, Andrés J. Vivas, Asociación Payanesa de Orquideología

Towards an understanding of patterns of diversity and distributions of orchids in the Orinoco and Eastern Andes regions: The department of Meta as a case study
Miguel Macgayver Bonilla Morales and Johan de Jesús Mosquera Hernández

Orchids collected during the botanical expeditions to Carpish and Chinchao, Peru
Delsy Trujillo

Conservation of orchids in Chaglla, Peru
Sofia Arevalo

Fragrances and their composition in euglossine-pollinated Neotropical orchids
Günter Gerlach

Orchid survival in the wild
Alexander Hirtz

VANILLA SYMPOSIUM

New insights on *Vanilla* (Vanilloideae) evolution and systematics
Ken Cameron

The use of multiple data sources to elucidate the identity of Brazilian vanillas (Vanilloideae, Orchidaceae)
Emerson R. Pansarin

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The genus *Vanilla* in El Salvador

José Yader S. Ruiz Cruz

The genus *Vanilla* in the Colombian Amazon

Andrés A. Barona-Colmenares, Lorena Quintero-Barrera, Rafael Arévalo B., and Nicola S. Flanagan

Implementation of an integrated strategy for the conservation and sustainable use of wild *Vanilla* species

Nicola S. Flanagan, P. Chavarriaga, and Ana Teresa Mosquera-Espinosa

***In vitro* and *ex situ* gene banks for Colombian vanillas**

Paul Chavarriaga, Francisco J. Sánchez, and Nicola S. Flanagan

Coexistence of *Vanilla* species in the Choco Wet Forest (Western Colombia) and implications for harvesting

Ana María Benavides, Eva Ledezma, Erika Restrepo, and Catalina Ramirez

Metabolomic and gene expression analysis in *Vanilla planifolia*

Tony L. Palama, Hippolyte Kodja, and Isabelle Fock-Bastide

Establishment and applications of an *ex situ* culture collection for *Vanilla* mycorrhizal and endophytic fungi

Ana Teresa Mosquera-Espinosa and Nicola S. Flanagan

***Vanilla*: Only for pastry or for posterity?**

Rebeca A. Menchaca García, Leticia Margarita Cano Asseleih, and José Yader S. Ruiz Cruz

Modern models of sustainable vanilla farming: successes, challenges, and potential solutions

Patricia Rain

***Vanilla*: wild species in Madre de Dios, Perú**

Midalit Medina

Conserving Mexican *Vanilla* species: *ex situ* and *in situ* gene banks at the Universidad Veracruzana, Mexico

Miguel A. Lozano Rodríguez, Rebeca A. Menchaca García, and José L. Alanís Méndez

It takes a community of microorganisms to grow and cure vanilla

Henry Karczynski

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CONFERENCE PLANNER



SET UP

NOV 4 | SAT. - NOV 6 | MON. 08:00-20:00



OPENING CEREMONY

NOV 7 | TUE. 19:00-22:00



JUDGING

NOV 7 | TUE 09:00-18:00



EXHIBITION (Open to the public)

NOV 8 | WED - NOV 12 | SUN 09:00-19:00



CONFERENCE

NOV 8 | WED - NOV 10 | FRI 09:00-17:00 NOV 11 | SAT 09:00-15:15



CONFERENCE CLOSING CEREMONY

NOV 11 | SAT 15:15-16:00



GUAYAQUIL NIGHT

NOV 9 | THU 19:00-22:00



GALA DINNER

NOV 11 | SAT 19:00-22:00



BREAK DOWN

NOV 13 | SUN 08:00-20:00

